

IN THE CLAIMS:

Please amend claims as follows.

1. (currently amended) An annular sealing and replenishment cup with axis Δ , which is intended to be positioned between a hydraulic cylinder (3) and piston (4) and which has a « U » axial section comprising:

a static branch (10) defining a static sealing annular lip (11),

a dynamic branch (12) defining a dynamic sealing annular lip (13),

and a core (14) connecting the static (10) and dynamic (12) branches and defining an annular bead (15) opposite the lips,

wherein the core (14) includes a rotation area and a stiffness area, rotation area defined by a first connecting surface (24) adjacent [[between]] the static branch (10) [[and the core (14)]], located opposite the bead (15), [[has]] and having a concave shape corresponding to a local reduction in the thicknesses of the static branch (10) and of the core (14) at the connecting region between the static branch (10) and the core (14), the stiffness area having a core thickness greater than the rotation area and a second connecting surface between the first connecting surface (24) and the dynamic branch (12) so as to define a rotation area (21), the rotation area (21) allowing the dynamic branch (12) and the core (14) as a whole to be displaced relative to the static branch.

2. (previously presented) The sealing and replenishment cup according to claim 1, characterized in that the connecting surface (24) between the static branch (10) and the rotation area (21), located opposite the bead (15), has at least one inflexion point (25).

3. (previously presented) The sealing and replenishment cup according to claim 1, characterized in that the minimum thickness (e_{10}) of the static branch (10), in the rotation area (21), is between 60 % and 85 % of the maximum thickness (E_{10}) of the static branch (10) and preferably between 65 % and 80 %.

4. (previously presented) The sealing and replenishment cup according to claim 1, characterized in that the internal (22) and external (23) faces of the static sealing lip (11) are substantially parallel outside the bending area (21).

5. (previously presented) The sealing and replenishment cup according to claim 1, characterized in that the internal (22) and external (23) faces of the static lip (11) form with the Δ axis, an angle (α) between 0° and 10° .

6. (previously presented) The sealing and replenishment cup according to claim 1, characterized in that the internal (35) and external (36) surfaces of the dynamic sealing lip (12) converge on one another towards the bead (15) of the cup.

7. (previously presented) The sealing and replenishment cup according to claim 1, characterized in that the internal (35) and external (36) faces of the dynamic sealing lip (12) are tapered and form with the Δ axis, an angle (β, β') between 15° and 30° .

8. (previously presented) The sealing and replenishment cup according to claim 1, characterized in that the core (14) has at least one replenishment notch (40) at the connecting surface, between the bead and its side face located in the extension of the dynamic sealing lip.

9. (currently amended) The sealing and replenishment cup according to claim 1, characterized in that the second connecting surface (30), ~~between the core (14) and the dynamic branch (12), located opposite the bead (15),~~ is at least partly convex ~~and corresponds to a local increase in the thicknesses of the core (14) and of the dynamic branch (12), defining a stiffness area (29).~~

10. (currently amended) The sealing and replenishment cup according to claim 9, characterized in that the second connecting surface (30) ~~between the dynamic branch (12) and the stiffness area [(29)], located opposite the bead (15),~~ has at least one inflexion point (31) that is adjacent to the dynamic branch (12).

11. (currently amended) The sealing and replenishment cup according to claim 9, characterized in that the second connecting surface ~~located opposite the bead, between the bending area (21) and the stiffness area (29),~~ has at least one inflexion point (32) that is adjacent to the rotation area.

12. (previously presented) The sealing and replenishment cup according to claim 9, characterized in that the minimum thickness (e_{14}) of the core (14) in the bending area (21) is

between 45 % and 80 % of the maximum thickness (E_{14}) of the core (14) in the stiffness area (29), and preferably between 68 % and 75 %.

13. (currently amended) The sealing and replenishment cup according to claim 9, characterized in that the surface of the bead (15), is substantially planar and perpendicular to axis Δ of the cup on the one hand, and on the other hand, forms a substantially right angle with the side surface (37) of the core (14) delimiting the stiffness area [(29)] and connecting the bead (15) to the dynamic sealing lip (13).

14. (previously presented) The sealing and replenishment cup according to claim 9, characterized in that the static sealing lip (11) is located on the outside of the cup, whereas the dynamic sealing lip (13) is located on the inside of the cup.

15. canceled.